

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing of claims in the application:

Listing of Claims:

1. – 17. (Cancelled)

18. (new) A method for controlling and adjusting a fibre-web machine, comprising the steps of:

substantially continuously measuring sound emanating from at least one section of the fibre-web machine, said sound including measured signals in frequency bands, each said measured signal in each said frequency band having an amplitude, said measured signals representing a state of at least one process value of the fibre-web machine;

comparing said measured signals with respective reference signals, said reference signals representing a desired state of said at least one process value of the fibre-web machine;

based upon a deviation derived from said comparing step of said measured signals from said reference signals, generating a control signal for the fibre-web machine to adjust said at least one process value; and

adjusting the fibre-web machine using the control signal based on the derived deviation of said measured signal from said reference signal.

19. (new) The method of claim 18, wherein said control signal is fed back into the fibre-web machine.

20. (new) The method of claim 19, wherein said sound is measured by means of a voice sensor from a calendaring machine in the fibre-web machine.

21. (new) The method of claim 18, wherein said sound is measured by means of a voice sensor from a calendaring machine in the fibre-web machine.

22. (new) Apparatus for controlling and adjusting a fibre-web machine, the fibre-web machine having at least one section that is capable of emitting a sound having signals in frequency bands, the signals in the frequency bands indicating a state and change of a process value of the fibre-web machine, the apparatus comprising:

means for substantially continuously measuring the signals emitted by the at least one section of the fibre-web machine;

means for comparing the measured signals with a reference signal, the reference signal being indicative of a pre-determined state of the process value; and

means for generating, in response to the results of the comparison, a control signal to the fibre-web machine to adjust the fibre-web machine to return the process value to its pre-determined state.

23. (new) The apparatus of claim 22, wherein said control signal is fed back into the fibre-web machine.

24. (new) The apparatus of claim 23, wherein said control signal operates stepwise.

25. (new) The apparatus of claim 23, wherein said control signal changes evenly over time.
26. (new) The apparatus of claim 22, wherein said control signal operates stepwise.
27. (new) The apparatus of claim 22, wherein said control signal changes evenly over time.
28. (new) The apparatus of claim 22, wherein said sound is measured by means of a voice sensor from a calendaring machine in the fibre web machine.
29. (new) The apparatus of claim 23, wherein said sound is measured by means of a voice sensor from a calendaring machine in the fibre web machine.
30. (new) The apparatus of claim 24, wherein said sound is measured by means of a voice sensor from a calendaring machine in the fibre web machine.
31. (new) The apparatus of claim 25, wherein said sound is measured by means of a voice sensor from a calendaring machine in the fibre web machine.
32. (new) The apparatus of claim 26, wherein said sound is measured by means of a voice sensor from a calendaring machine in the fibre web machine.
33. (new) The apparatus of claim 22, wherein said control signal changes periodically over time.

34. (new) The apparatus of claim 23, wherein said control signal changes periodically over time.